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# Offenlegungsschrift 2102 605

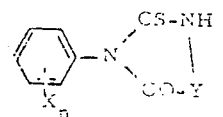
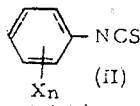
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507715-C. C2. JA-005355. S31. Sumitomo Chemical Co Ltd. Sumitomo C07d-49/36 (29-07-71)... HERBICIDAL THIOHYDANTOIN DERIVS....	SUMO.21-01-798 OT-2102605-Q	C7-D9, C12-Pb. 2 19
<p><u>NEW</u> Thiohydantoin derivs. (I)</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>(where X is halogen, n is 1, 2 or 3 and Y is <math>\text{&gt;CR}_1\text{R}_2</math> or <math>\text{&gt;CR}</math>, where <math>\text{R}_1</math> and <math>\text{R}_2</math> are H, alkyl, hydroxyalkyl, alkenyl, alkoxy-carbonyl, or alkoxy-carbonyl-alkyl, and R is alkylidene or alkoxy-carbonylalkylidene).</p> </div> </div> <p><u>USES</u> Herbicides and as active ingredients in herbicide compositions, for pre-emergent use against grassy broad-leaved weeds. Rice seedlings are not affected. (I) can also be used to protect crops, beans, other vegetables, fruit orchards, lawns, pastures and fallow ground against <i>Portulaca oleracea</i>, <i>Polygonum longisetum</i>, <i>Stellaria media</i>, <i>Amaranthus retroflexus</i>, <i>Euphorbia supina</i> or <i>Cyperus microiria</i>.</p>		
<p>(I) can be combined with fungicides, insecticides, nematocides, herbicides and fertilisers.</p> <p><u>ADVANTAGE</u> Very low toxicity to warm-blooded animals and fish.</p> <p><u>PREFERRED</u> (I) where (a) X is Cl in 3-position, n = 1, and Y is <math>\text{&gt;C}(\text{CH}_3)_2</math>; (b) X is Cl in 3- and 5-positions, n = 2, Y is <math>\text{&gt;C}(\text{CH}_3)_2</math>; (c) X is Cl in 3-position, n = 1, Y is <math>\text{&gt;CH-CH}(\text{CH}_3)_2</math>; (d) X is Cl in 3- and 5-positions, n = 2, Y is <math>\text{&gt;CHC}_2\text{H}_5</math>.</p> <p><u>PREPARATION</u> (a) (I) where Y is <math>\text{&gt;CR}_1\text{R}_2</math> are pref. prepd. by reacting a phenylisothiocyanate (II).</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>with an amino-acid <math>\text{H}_2\text{N-CR}_1\text{R}_2\text{-COOH}</math> (III).</p> </div> </div> <p>(b) (I) where Y is <math>\text{&gt;CR}</math> are pref. prepd. by treating a hydantoin deriv. (IV).</p> <p style="text-align: right;">Contd 507715</p>		

Prüfungsantrag gemäß § 28 b PatG ist gestellt